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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------------------------------------------------------------------|-----------------|-----------------------|---------------------|------------------|
| 10/720,998 | 11/24/2003 | Gediminas Jonusauskas | 046190/271875 3389 | |
| 826 | 7590 12/01/2006 | | EXAMINER | |
| ALSTON & | | ROY, BAISAKHI | | |
| BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000 CHARLOTTE, NC 28280-4000 | | | ART UNIT | PAPER NUMBER |
| | | | 3737 | |

DATE MAILED: 12/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | R | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------|--|--|
| | Application No. | Applicant(s) | 0 | | |
| · Office Action Summers | 10/720,998 | JONUSAUSKAS ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| · | Baisakhi Roy | 3737 | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence a | ddress | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim fill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE | L. ely filed the mailing date of this () (35 U.S.C. § 133). | | | |
| Status | • | | | | |
| 1) Responsive to communication(s) filed on 19 Ju | <u>ly 2004</u> . | | | | |
| 2a) This action is FINAL . 2b) ⊠ This | action is non-final. | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposition of Claims | | | | | |
| 4)⊠ Claim(s) <u>1-13</u> is/are pending in the application. | | | | | |
| 4a) Of the above claim(s) is/are withdraw | n from consideration. | | | | |
| 5) Claim(s) is/are allowed. | | | | | |
| 6)⊠ Claim(s) <u>1-13</u> is/are rejected. | • | | | | |
| 7) Claim(s) is/are objected to. | | | | | |
| 8) Claim(s) are subject to restriction and/or | election requirement. | | | | |
| Application Papers | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | |
| 10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | |
| 11)☐ The oath or declaration is objected to by the Exa | aminer. Note the attached Office | Action or form P | TO-152. | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau | have been received. have been received in Application ty documents have been receive | on No | I Stage | | |
| • • • • • • • • • • • • • • • • • • • • | • • • • • • • • • • • • • • • • • • • • | Н | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | |
| | | | | | |
| Attachment(s) | | | · | | |
| 1) Notice of References Cited (PTO-892) | 4) Interview Summary | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/24/03. | Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other: | | O-152) | | |

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Jung et al. (6246479). Jung et al. disclose a system and method of acquiring and processing images of a tooth (col. 4 lines 2-5). The steps including lighting a zone of the tooth in monochromatic light at a wavelength selected to excite emission of fluorescence (col. 66 lines 47-65), by the mineral portion of the tooth (col. 45 lines 14-17) using video to take images of lighted zone of the tooth (col. 37 lines 15-18, col. 45 lines 31-39) in two wavelength bands, one of which is in a high energy portion and the other of which is in a low energy portion of the emission spectrum, measuring the spectral intensity of the emitted fluorescence in these two wavelength bands at each point of the images, one in the ultraviolet and other visible (col. 15 lines 33-60), and taking the ratio at each point of the measurements in the two wavelength bands and comparing the ratio with predetermined values (col. 45 lines 31-40, col. 59 lines 55-61). The system includes spectral filter means comprising interchangeable color filters (col. 4 lines 33-37). The

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transmission means comprises an optical fiber image guide (col. 4 lines 7-13). The apparatus also include shutter or time gate means associated with the video means for taking alternately images of the zone of the tooth as illuminated in visible light and fluorescence images of the zone in high and low energy wavelength bands of the emission spectrum (col. 50 lines 45-53).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO 892 for relevant references of interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baisakhi Roy whose telephone number is 571-272-7139. The examiner can normally be reached on M-F (7:30 a.m. - 4p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian L. Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BR

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ELENI MANTIS MERCADER SUPERVISORY PATENT EXAMINER